JVC

SERVICE MANUAL

MODEL

RC-S40L/LB

FM-LW-MW-SW
4-BAND RADIO
CASSETTE RECOF

No. 1476
April 1982

Contents

Specifications

Semiconductors : 9 ICs (including 1 for the motor and 2 for the microphone)
11 transistors
Speakers : 9 cm (3-1/2") (4 Ω) x 2

Tuner section

Frequency ranges : FM 88–108 MHz
LW 150–350 kHz
MW 540–1600 kHz
SW 6–18 MHz
Antennas : Telescopic antenna for SW & FM
Ferrite core antenna for LW & MW

Tape recorder section

Track system : 4-track, 2-channel stereo
Frequency response : 70–9000 Hz
Wow & flutter : 0.19% (WRMS)
S/N ratio : 42 dB (Normal tape)
Rewind time : Approx. 110 sec (C-60 cassette)
Fast forward time : Approx. 110 sec (C-60 cassette)

Amplifier section

Power output : Max. 5 W (2.5 W + 2.5 W) at 4 Ω
Input jacks : Mic x 2 (0.8 mV, –62 dB V, 200–2 kΩ)
Output jacks : Headphones x 1
Power supply : DC 9 V (6 "R14" batteries)
Car battery (DC 9 V)
AC 230/115 V, 50/60 Hz
Power consumption : 9 W
Dimensions : 432(W) x 139(H) x 103(D) mm
(17-1/8" x 5-1/2" x 4-1/8")
Weight : Approx. 2.1 kg (4.6 lbs)
(without batteries)

Design and specifications subject to change without notice.

Features

- 4-band slim and compact design
- Biphonic * system
- One touch recording mechanism
- Pause facility
- Auto-stop mechanism
- 3-way power supply flexibility

* : Biphonic is a trademark of JVC.

Names of Parts

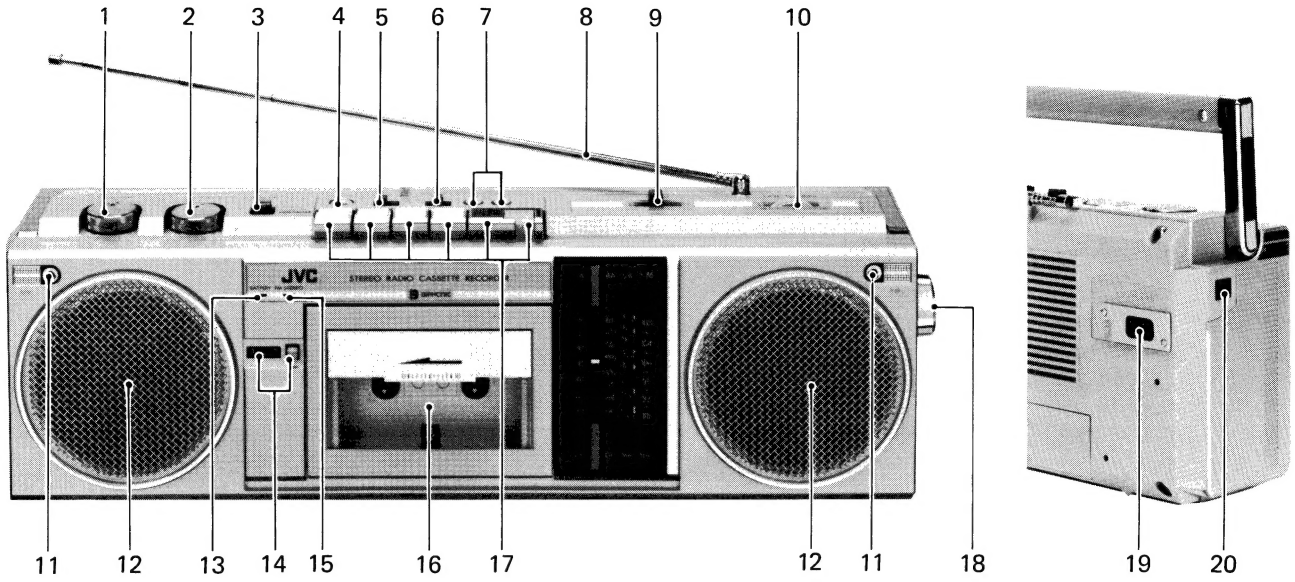


Fig. 1

1. VOLUME control
2. TONE control
3. FUNCTION switch
4. PHONES jack
5. MONITOR switch
6. MODE/BEAT CUT switch
7. MIC jacks
8. Telescopic antenna
9. BAND switch
10. FINE TUNING knob
11. Built-in microphone
12. 9.2 cm (3-5/8") speaker
13. Power indicator
14. Tape counter/reset button
15. FM STEREO indicator
16. Cassette holder
17. Cassette operation buttons
    - ❚❚ PAUSE button
    - ■ STOP/EJECT button
    - ◀◀ FF (fast forward) button
    - ▶▶ REW (rewind) button
    - ◀ PLAY button
    - ○ REC (record) button
18. Tuning knob
19. AC INPUT jack
20. DC jack

Main Parts Location

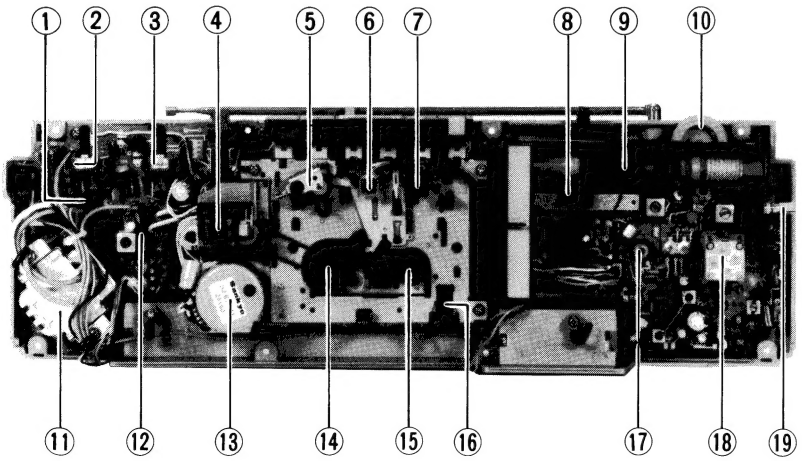
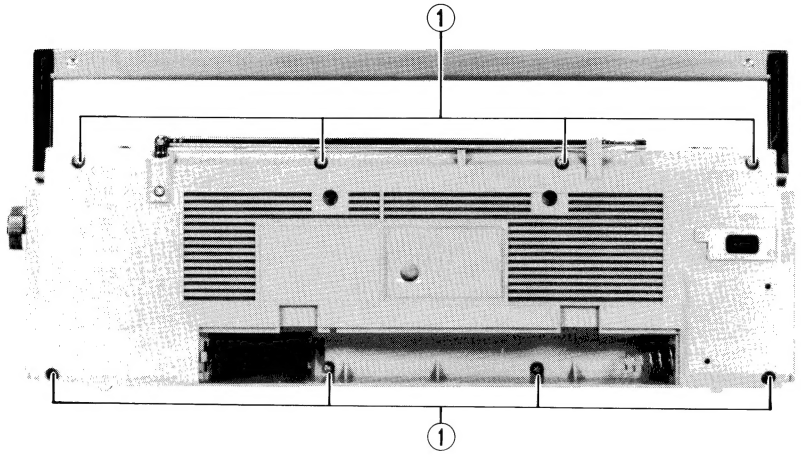


Fig. 2

①. AC INPUT Jack
②. Volume VR.
③. Tone VR.
④. Counter
⑤. Pinch roller
⑥. REC/PB head
⑦. Erase head
⑧. Band select switch
⑨. Bar antenna
⑩. Fine tuning
⑪. Power transformer
⑫. Amplifier P.W.B assembly
⑬. Motor
⑭. Take-up reel disc.
⑮. Supply reel disc.
⑯. Rec. safety lever
⑰. Tuner P.W.B. assembly
⑱. Valiable condenser
⑲. Tuning shaft

Removal of Main Parts

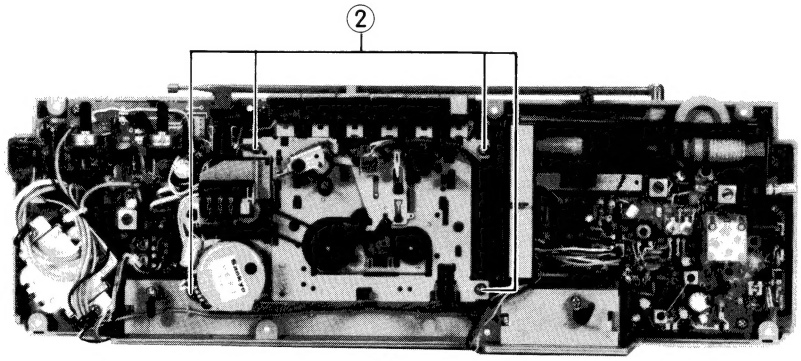


(Remove in the order of the numbers.)

Rear cover and front cover

1) Remove 3 knobs (Tone, Volume and Tuning.)
2) Remove 8 screws ① fastening the rear cover

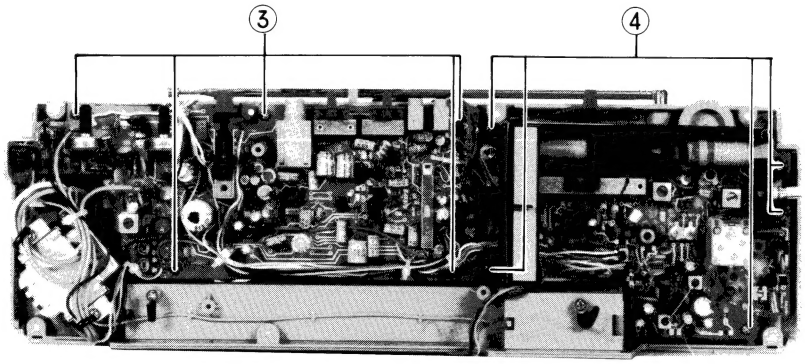
Fig. 3



Mechanical assembly

Remove 4 screws ② fastening the mechanical chassis.

Fig. 4



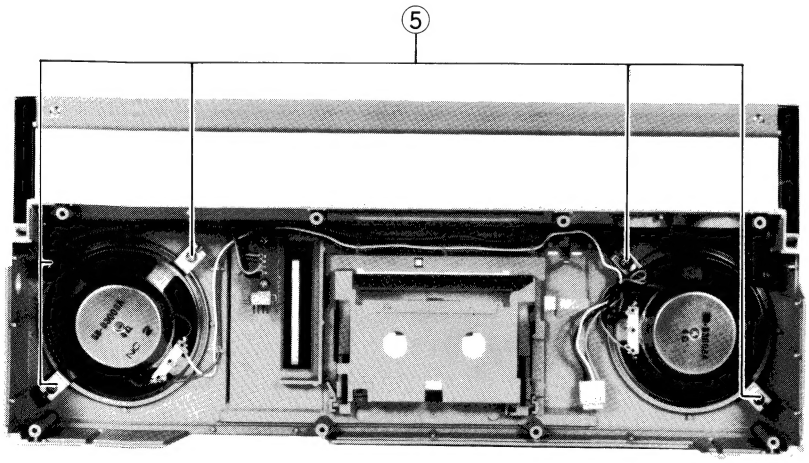
Amplifier P.W.B. assembly

Remove 4 screws ③ fastening the amplifier P.W. board.

Tuner P.W.B. assembly

Remove 5 screws ④ fastening the tuner P.W. board.

Fig. 5



Speakers

Remove 4 screws ⑤. (L & R each 2 p.c.s.)

Mechanical Parts

The removal methods of mechanical parts are the same as model RC-S10R/JW. Please refer to service manual of RC-S10SR/JW (No. 1471, Page 6).

Fig. 6

How to Engage Dial Cord

How to engage dial cord

1. Turn the dial drum fully counterclockwise (to the lowest frequency).
2. Use Kevlar cord (660 mm long and 0.5 mm in diameter) with applied micro wax.
3. Install the string in the sequence of the numbers.

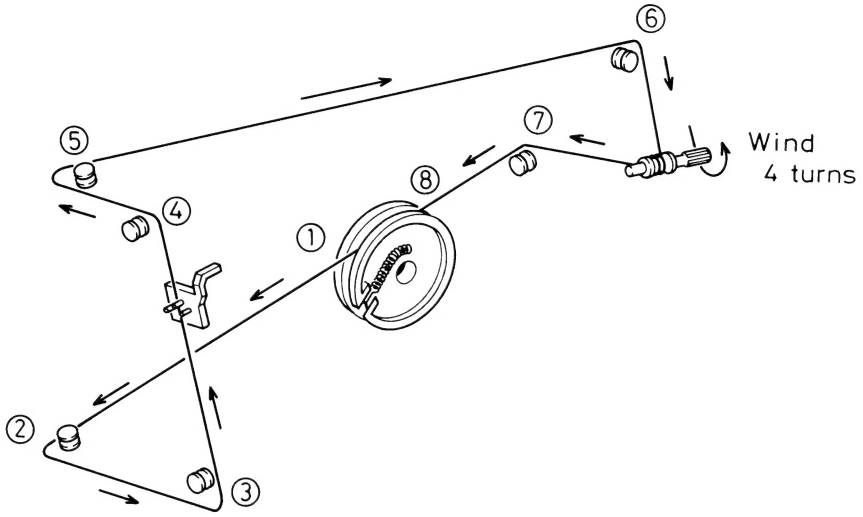
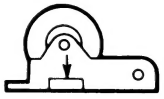
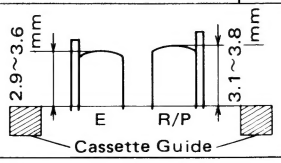


Fig. 7

Adjustment of Cassette Mechanism

Check the following items after cassette mechanism parts are replaced.

Item	Requirements	Test equipment	Test tape
1. Source voltage	Rated voltage: 9 V DC Motor operating voltage range: 6–12 V DC	Regulated power supply	–
2. Tape speed	4.8 cm/sec (3,000 Hz) −2% Deviation +3%	Frequency counter (digital counter)	VTT-656A
3. Wow & flutter	Less than 0.35% (RMS)	Wow meter	VTT-656A
4. Take-up torque	PLAY 35–75 g.cm FF 60–200 g.cm REW 60–200 g.cm	During FF and rewind, the idlers, reels and flywheel should not slip against each other when the reels are locked.	–
5. Current consumption (of motor alone)	PLAY 175 mA or less FF 250 mA or less REW 250 mA or less	DC ammeter	C-60 (tape-up torque should be normal when tape is used.)
6. Pinch roller pressure	350–450 g	Tension gauge Pull the pinch roller perpendicularly and read the gauge when the pinch roller just stops. 	–
7. Head position during PLAY and RECORD		During PLAY (RECORD) the dimensional requirements given here must be met, and the heads must not contact the cassette case.	Any cassette tape
8. Auto-stop operation	The facility should operate with a reduced voltage of 5.0 V at the end of tape during PLAY/RECORD. During REC, a load the same as that of the amplifier is applied.		Any cassette tape

Head azimuth

Connect an oscilloscope to the PHONES jacks. Using test tape VTT-657 (8 kHz, −15 dB), adjust so the phase difference between the L and R outputs is 0° and maximize the output level at the same time.

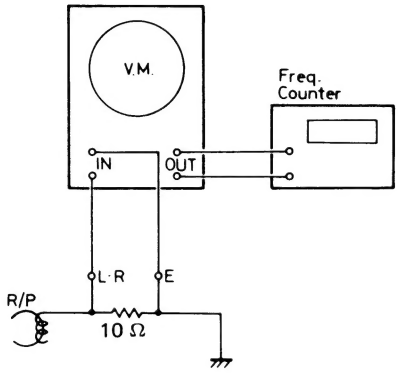


Fig. 8

Tape speed

Connect a frequency counter to the PHONES jacks. Playing back test tape VTT-656 (3,000 Hz), adjust the semi-fixed resistor in the motor so that the frequency counter reads 3,010 Hz.

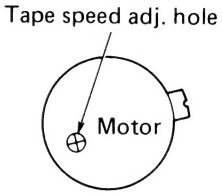


Fig. 9

Adjustment of Cassette Amplifier

Parts Location of Adjustment

(Amplifier circuit — parts side view)

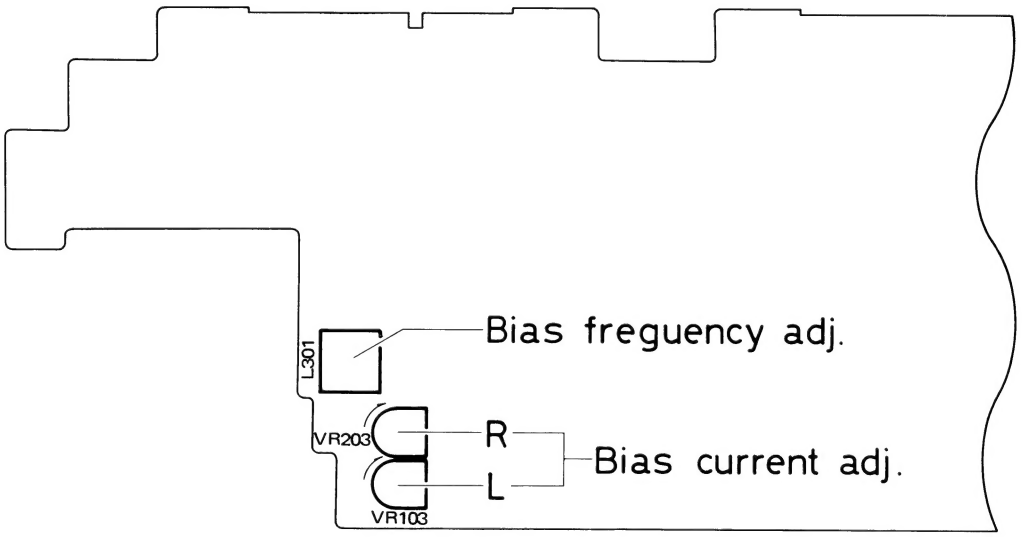
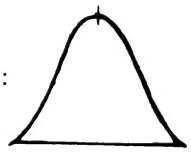
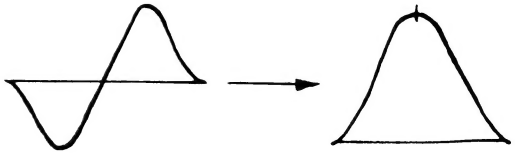


Fig. 10

Power supply	:	DC 9 V
Bias frequency	:	Connect a frequency counter across TP1 (TP3) and TP2 (TP4) Adjust L301 so that the counter reads 68 kHz.
Bias current	:	Connect an electronic voltmeter across the same position as bias frequency adjustment. Adjust VR103 (VR203) so that the voltmeter reads 450 μA (4.5 mV/10 Ω).

Tuner Adjustment

POWER SOURCE OF THE RECEIVER	DC 9 V, AC230/115 V, 50/60 Hz.
LOAD RESISTANCE OF THE RECEIVER	50 mW (0.44 V)/4 Ω
MODULATION OF SSG	400 Hz. 30%

Item	Description
1. MW IF ALIGNMENT	
1-1 Conditions of the receiver.	
(1) Power source:	DC 9 V. (When the power is supplied directly to the tuner in the receiver, the voltage should be adjusted to the proper level which shall be required by the tuner.)
(2) Function switch position:	RADIO
(3) Band select switch:	MW
(4) Volume control:	Minimum gain position
(5) Tone control:	Maximum position
(6) Variable capacitor:	Near the minimum capacity position where no signal come in.
1-2 Connection of Sweeper and the receiver	
(1) Tuner input:	Positive side to TP-5.
(2) Tuner output:	Positive side to TP-6. Negative side to TP-4.
1-3 Aligning position:	CFT, T3
1-4 Alignment (Waveform): 	Adjust MW I.F.T. (above mentioned aligning position) so that maximum and symmetrical wave form can be obtained. In this case, the wavehead should be appeared at the center maker (455 kHz) on the scope of Sweeper.
2. FM IF ALIGNMENT	
2-1 Conditions of the receiver	
(1) Power source:	Same as mentioned in item 1-1.
(2) Function switch position:	RADIO
(3) Band select switch:	FM
(4) Volume control:	Minimum gain position
(5) Tone control:	Maximum position
(6) Variable capacitor:	Near the minimum capacity position where no signal come in.
2-2 Connection of Sweeper and the receiver	
(1) Tuner input:	Positive side to TP-2.
(2) Tuner output:	Positive side to TP-3. Negative side to TP-4.
NOTE a) Attach a capacitor (30 pF) and a resistor (30 kΩ) in series to the positive side cable which shall be led from Sweeper input. b) Attach a capacitor (30 pF) and a resistor (100 kΩ) in series to the positive side cable which shall be led from Sweeper output.	
2-3 Aligning position:	a) IF Waveform: T1 b) Discriminate Waveform: T2 ("S" curve waveform)
2-5 Alignment (Waveform): a) IF Waveform:	Adjust the discriminate coil (T2) so that 'S" curve waveform may be changed to IF waveform as shown in following figure. After above adjust T1 so that max. sensitivity and symmetrical IF waveform can be obtained on the scope of Sweeper. 

Item	Description
b) Discriminate Waveform:	Adjust the discriminate T2 again so that above symmetrical IF waveform may be changed to balanced 'S'' curve waveform.
3. MW RF ALIGNMENT	
3-1 Conditions of the receiver.	
(1) Power source:	Same as mentioned in item 1-1.
(2) Function switch position:	RADIO
(3) Volume control:	50 mW
(4) Tone control:	Maximum position.
(5) Fine tuning position:	Center position
(6) Variable capacitor:	Refer the following list shown in item 3-4.
3-2 Conditions of SSG.	
(1) Modulation:	Refer the basic condition
(2) Frequency:	Refer the following list shown in item 3-4.
(3) Output level of the attenuator in SSG:	Approx. 50 mW
3-3 Power output measuring position:	Speaker terminals
3-4 Alignment:	

	Band Select Switch Position	Sort of Antenna to be attached to SSG	Frequency of SSC	Variable Capacitor Position	Aligning Position
1	LW	Loop Antenna	145 kHz	Max. capacity	L8
2			360 kHz	Min. capacity	TC-4
3			Adjust the above aligning position (L8 & TC-4) repeatedly so that the tuner can be received above frequency range (band width).		
4			160 kHz	to be received 160 kHz	L5
5			350 kHz	to be received 350 kHz	TC-3
6			Adjust the above aligning position (L5 & TC-3) repeatedly so that the tuner can be obtained the best sensitivity.		
7	MW	Loop Antenna	520 kHz	Max. capacity	L9
8			1650 kHz	Min. capacity	TC-5
9			Adjust the above aligning position (L9 & TC-5) repeatedly so that the tuner can be received above frequency range (band width).		
10			620 kHz	to be received 620 kHz	L6
11			1400 kHz	to be received 1400 kHz	TC-7
12			Adjust the above aligning position (L6 & TC-7) repeatedly so that the tuner can be obtained the best sensitivity.		
13	SW	Rod Antenna through Dummy Antenna	5.8 MHz	Max. capacity	L10
14			18.6 MHz	Min. capacity	TC-6
15			Adjust the above aligning position (L10 & TC-6) repeatedly so that the tuner can be received above frequency range (boand width).		
16			6.0 MHz	to be received 6.0 MHz	L7
17			18.0 MHz	to be received 18.0 MHz	TC-8
18			Adjust the above aligning position (L7 & TC-8) repeatedly so that the tuner can be obtained the best sensitivity.		

Item	Description
4. FM RF ALIGNMENT	
4-1 Conditions of the receiver	
(1) Power source:	Same as mentioned in item 1-1.
(2) Function switch position:	RADIO
(3) Band select switch:	FM
(4) Volume control:	50 mW
(5) Tone control:	Maximum position
(6) Variable capacitor:	Refer the following list shown in item 4-3.
4-2 Condition of FM SSG	
(1) Modulation:	Refer the basic condition
(2) Frequency:	Refer the following list shown in item 4-3.
(3) Output level of the attenuator in FM SSG:	The level shall be decided by the load resistance of the receiver mentioned in the basic conditions.
4-3 Alignment:	

	Band Select Switch Position	Antenna to be attached to FM SSG	Frequency of FM SSG	Variable Capacitor Position	Aligning Position
1	FM	Dummy Antenna	87.5 MHz	Max. capacity	L3
2			109.0 MHz	Min. capacity	TC-2
3			Adjust the above aligning position (L3 & TC-2) repeatedly so that the tuner can be received above frequency range (band width).		
4			90 MHz	to be received 90 MHz	L1
5			106 MHz	to be received 106 MHz	TC-1
6			Adjust the above aligning position (L1 & TC-1) repeatedly so that the tuner can be obtained the best sensitivity.		
7	Pilot Signal Alignment	1. Short circuit TP3 to case of T2 2. Input 60 dB MONO Signal Freq. 98 MHz 3. Adjust the VR1, so that output frequency of TP7 may be obtained 19 kHz.			

(A) Parts Location on Tuner P.W. Board

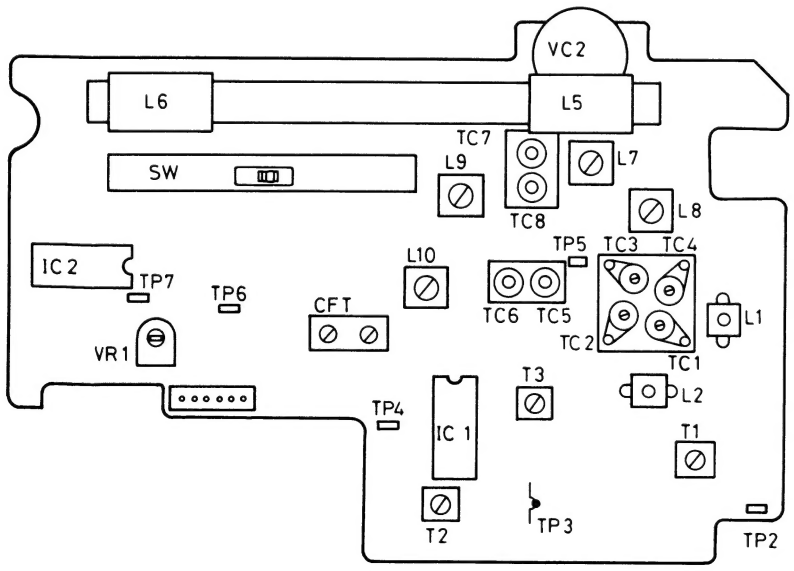
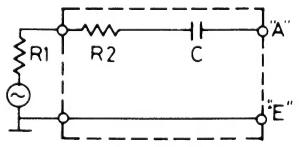


Fig. 11

(B) Dummy Antenna



R1 + R2 = 80 Ω
C = 10 pF
R1: Output impedance of S.S.G.

Block Diagram

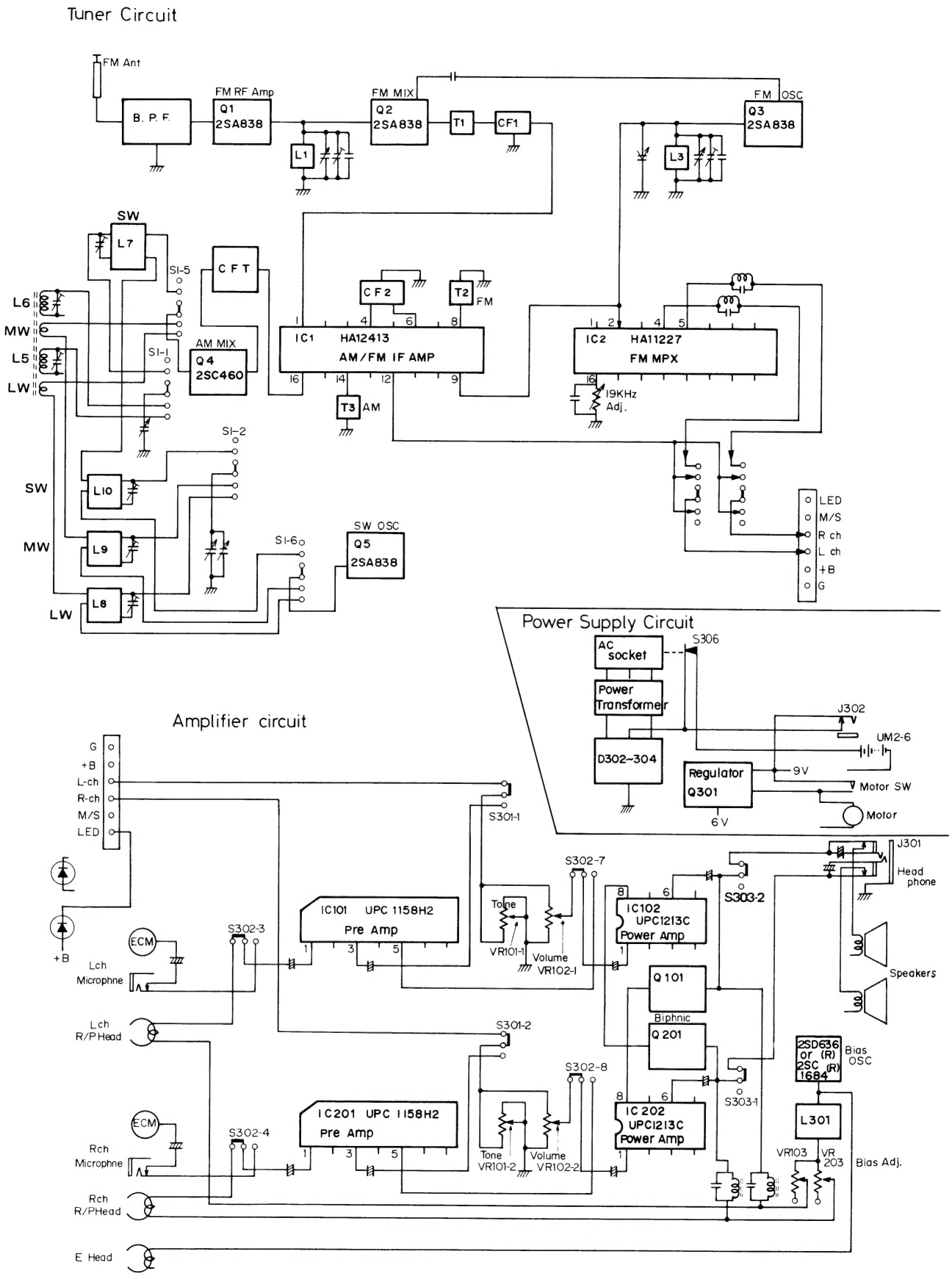
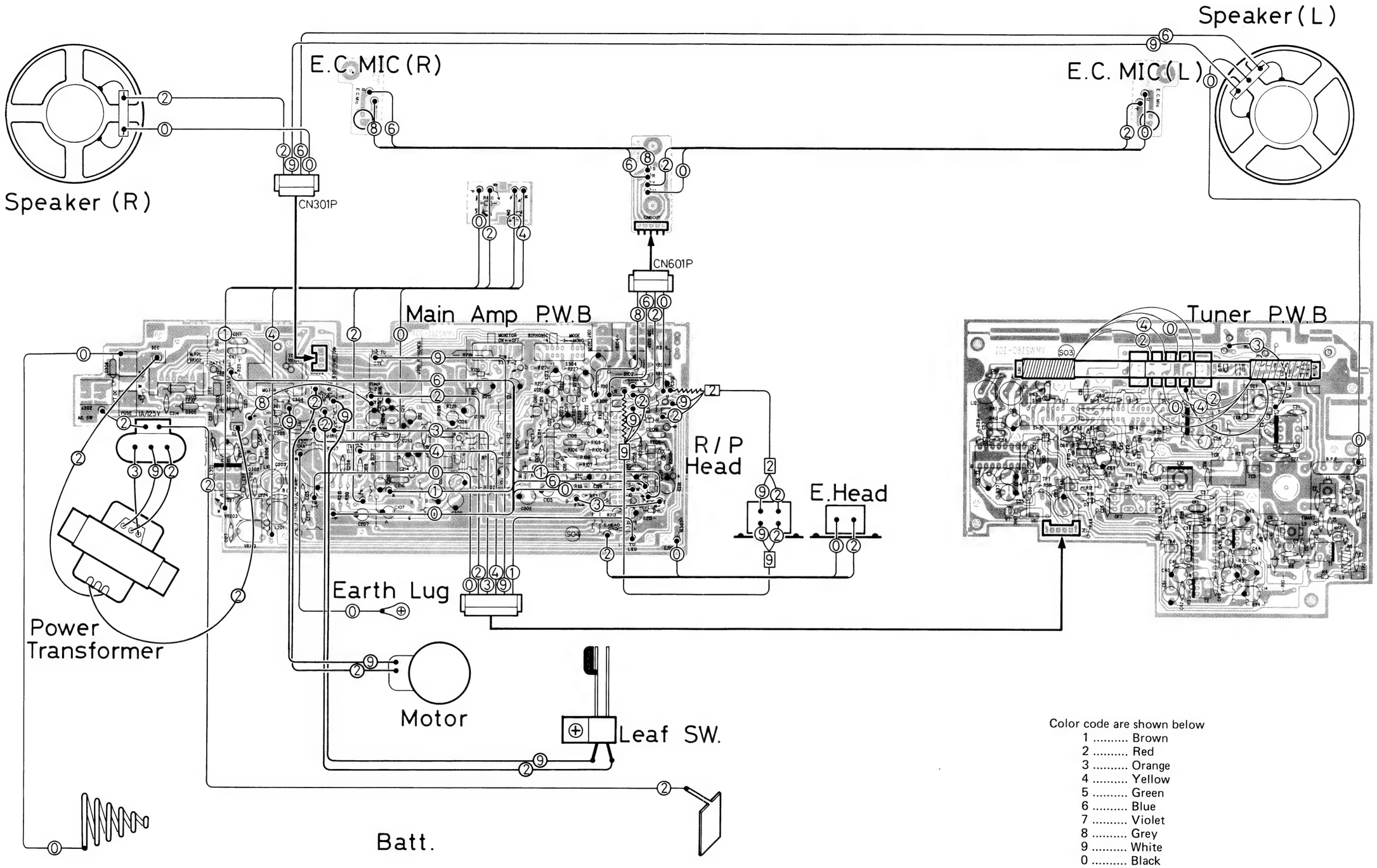


Fig. 12

Wiring Connection

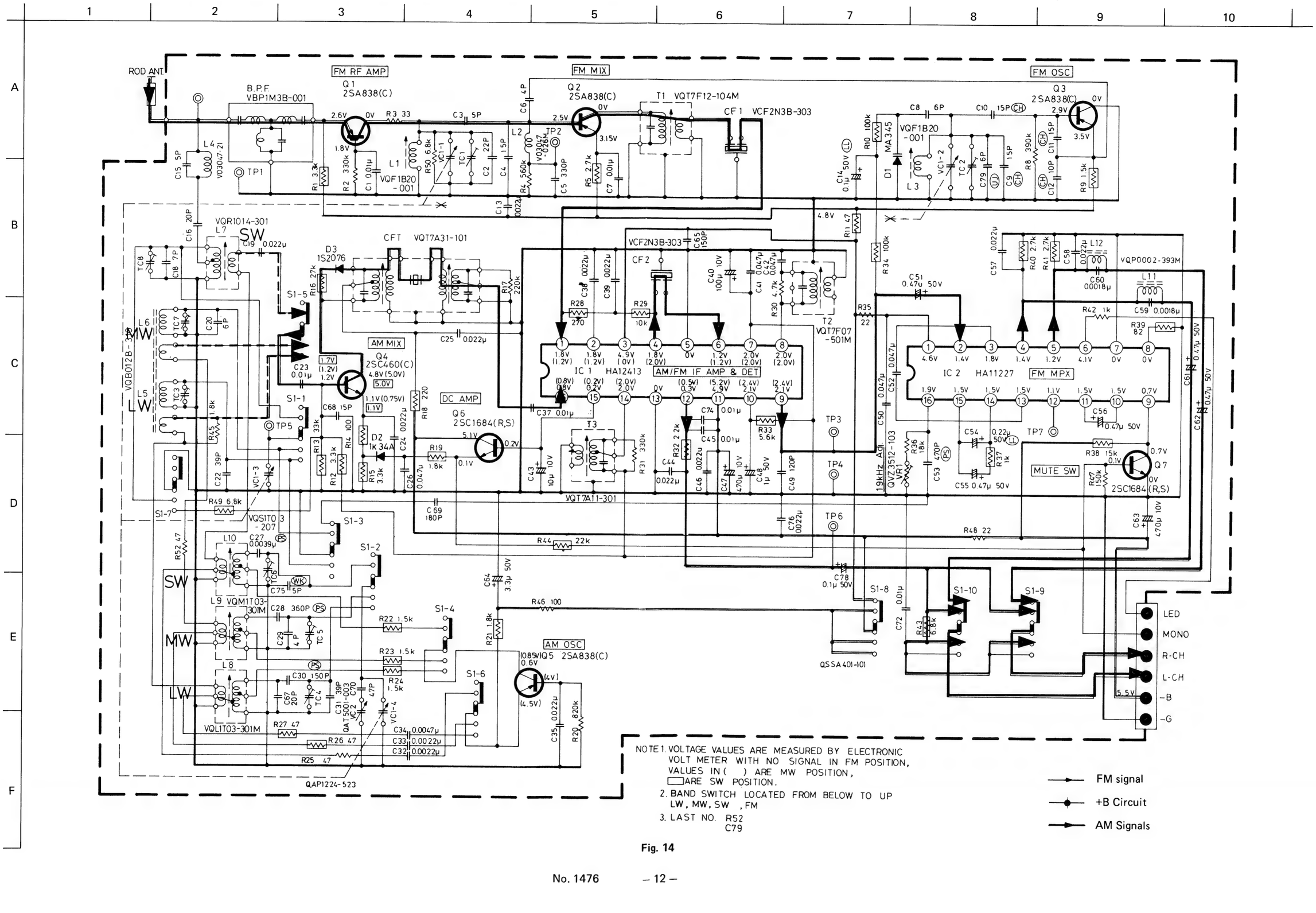


Color code are shown below

1 ..... Brown
2 ..... Red
3 ..... Orange
4 ..... Yellow
5 ..... Green
6 ..... Blue
7 ..... Violet
8 ..... Grey
9 ..... White
0 ..... Black

Fig. 13

Standard Schematic Diagram of RC-S40L/LB (Tuner Circuit)



NOTE 1. VOLTAGE VALUES ARE MEASURED BY ELECTRONIC VOLT METER WITH NO SIGNAL IN FM POSITION, VALUES IN ( ) ARE MW POSITION, □ ARE SW POSITION.
2. BAND SWITCH LOCATED FROM BELOW TO UP LW, MW, SW , FM
3. LAST NO. R52 C79

Fig. 14

Tuner P.W. Board Parts

Parts ass'y side view

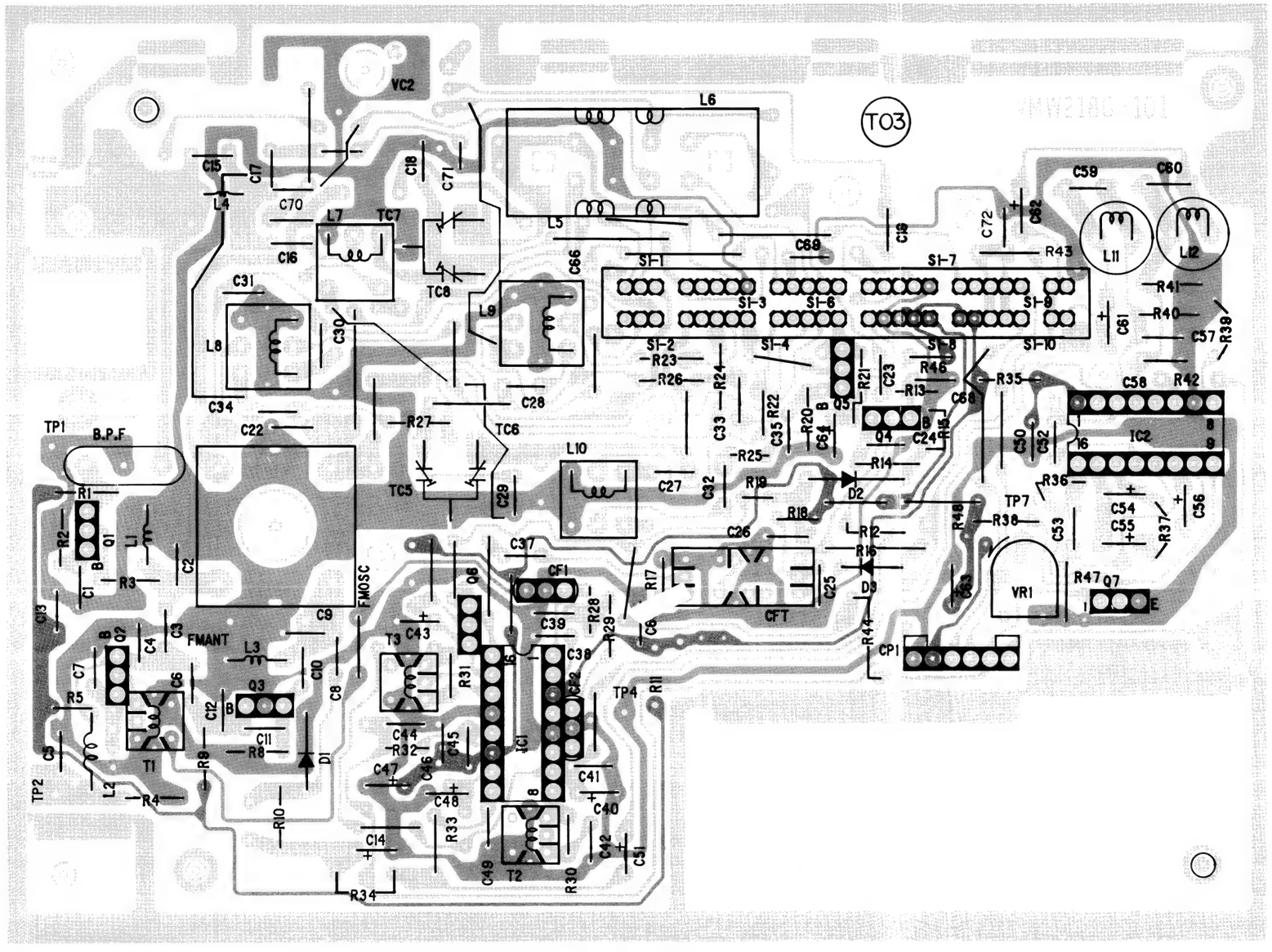
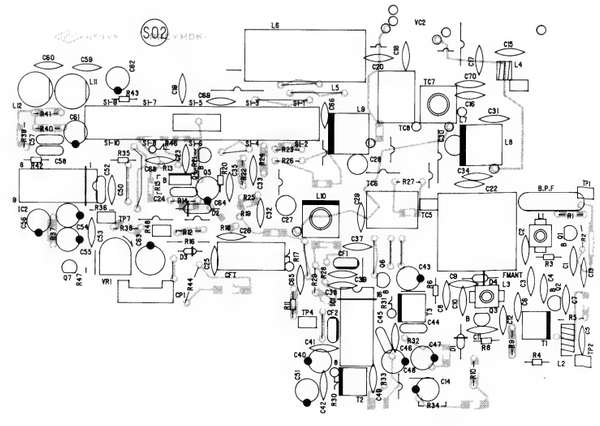
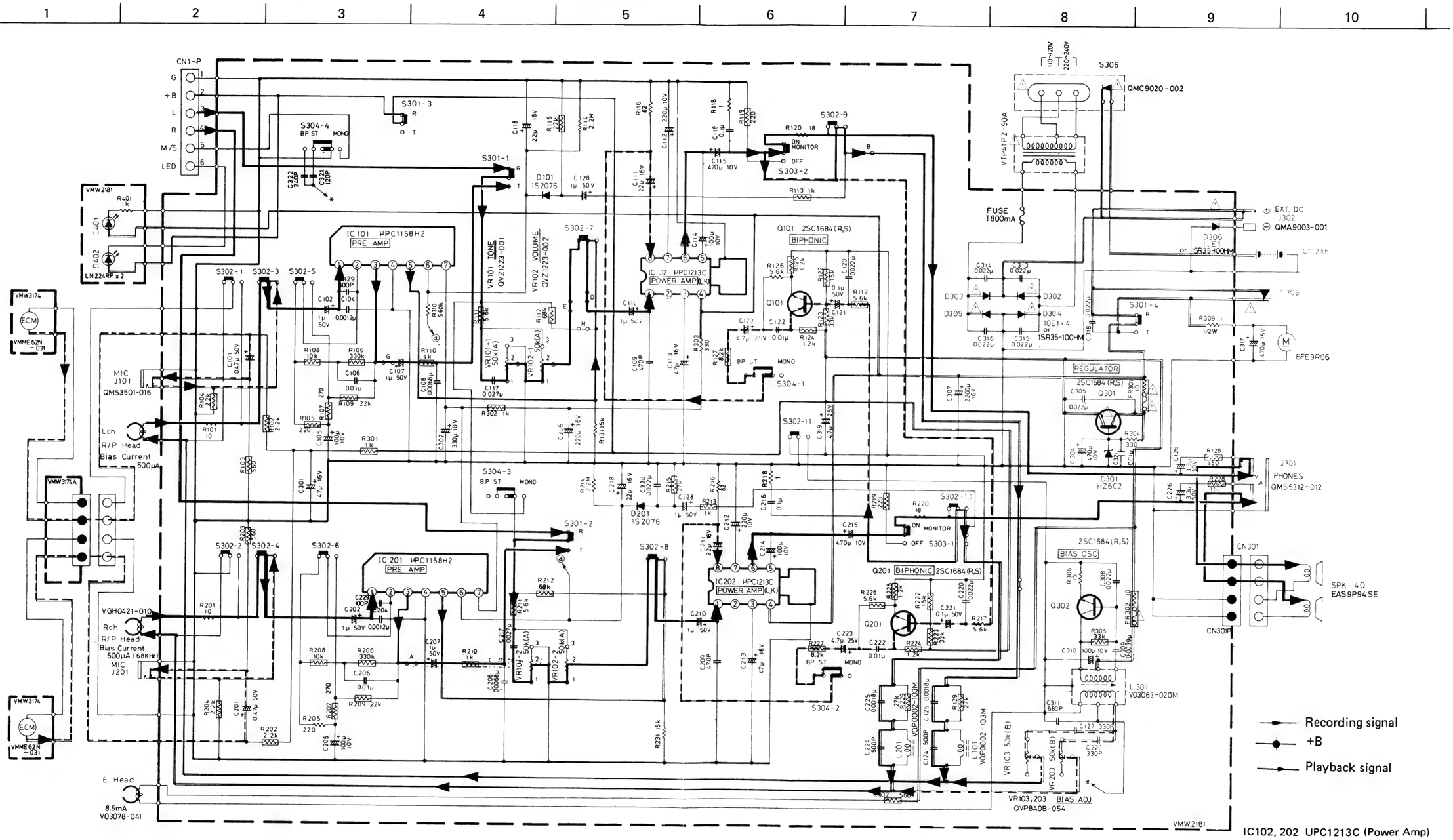


Fig. 15

Parts ass'y side view



Standard Schematic Diagram of RC-S40L/LB (Amplifier Circuit)



NOTES
1 SWITCH S301-1···4 FUNCTION : RADIO POSITION QSL4210-301
2 SWITCH S302-1···11 REC/PLAY : PLAY POSITION QSSC201-201R
3 SWITCH S303-1···2 MONITOR : ON POSITION QSS2201-203
4 SWITCH S304-1···4 MODE : STEREO POSITION QSS4301-034
5 SWITCH S305 MOTOR : ON POSITION MSW-1275T
6 SWITCH S306 AC SOCKET : ON POSITION QMC9020-002
7 SYMBOL MARKS CIRCLED OF RESISTORS ARE PRINTED RESISTORS

⚠ parts are safety assurance parts. When replacing those parts, make sure to use the specified one.

Voltage Values are shown below

1. Transistor (V)

NO. \ POINT	Base	Collector	Emitter
Q101, 201 Biphonic	1.4 (5.4)	4.5 (5.4)	0.7 (5.4)
Q301 ~~Regulator~~	6.0	8.9	5.4
Q302 Bias OSC	5.4 (0.7)	5.4 (5.4)	5.4 (0.1)

(REC)

2 IC (V)

NO. \ PIN	1	2	3	4	5	6	7	8
IC 101	1.3	0.8	2.5	0	0.1	0	5	
IC 102 202	4.5	4	8.90	9	8.6	4.5	4.5	4.5

Fig. 16

IC101, 201 UPC1158H2 (Pre Amp)

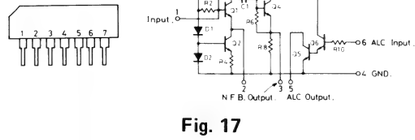


Fig. 17

IC102, 202 UPC1213C (Power Amp)

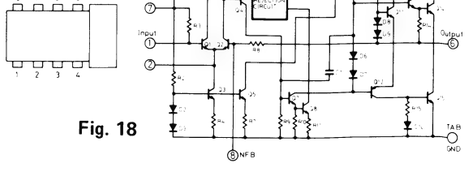


Fig. 18

Amplifier P.W. Board Parts

Pattern side view

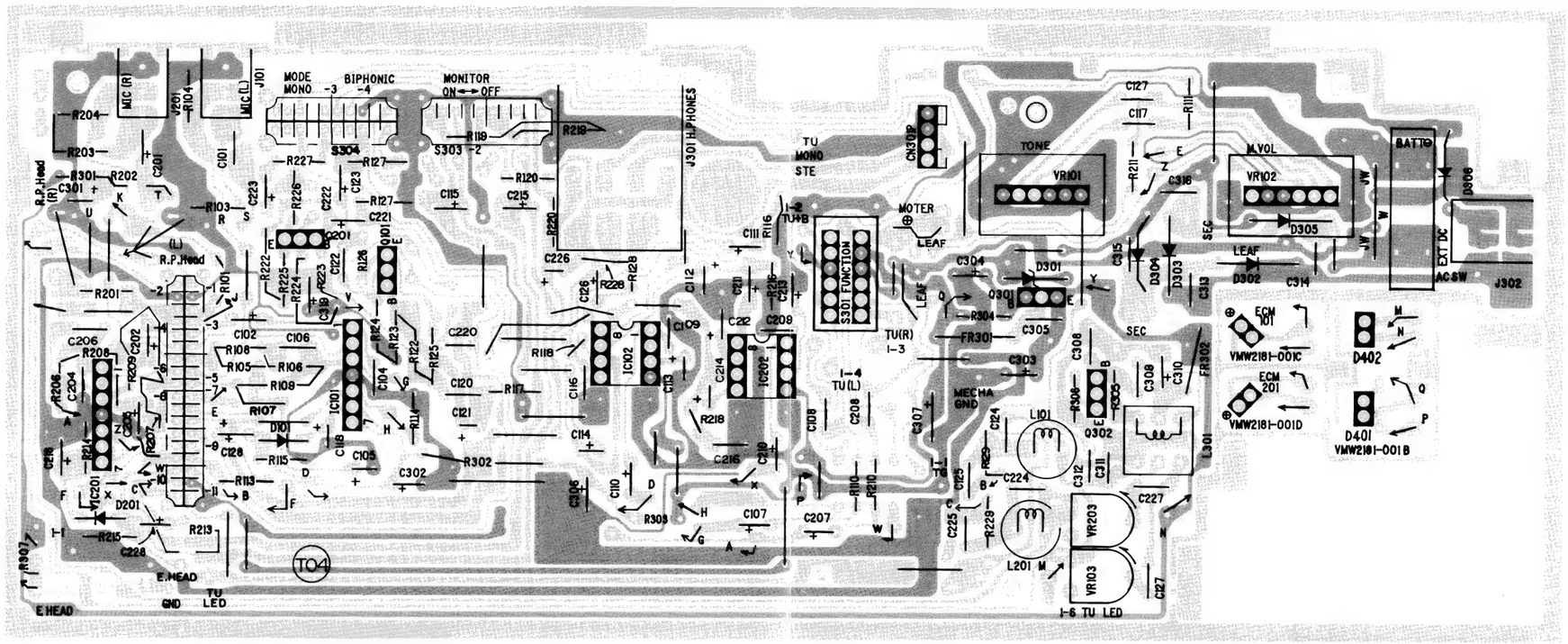


Fig. 19

Parts ass'y side view

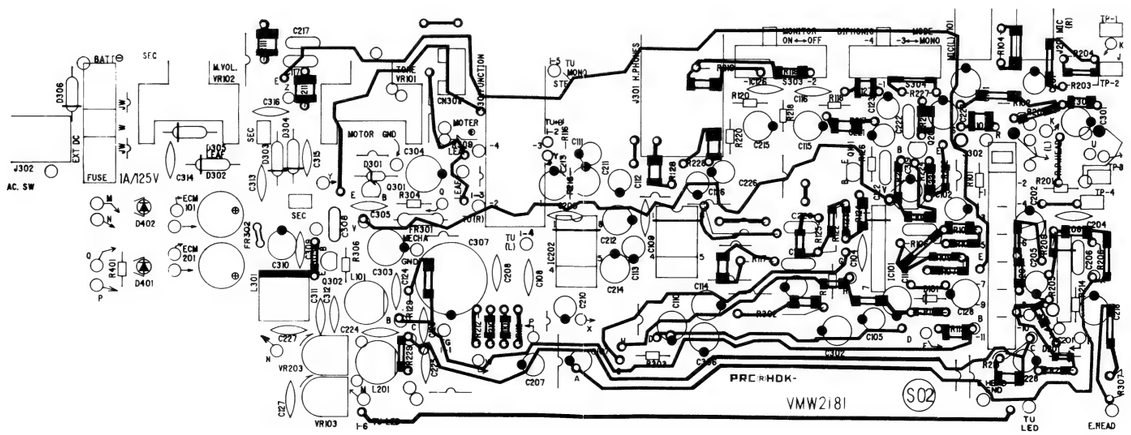


Fig. 20

Enclosure Assembly and Electrical Parts

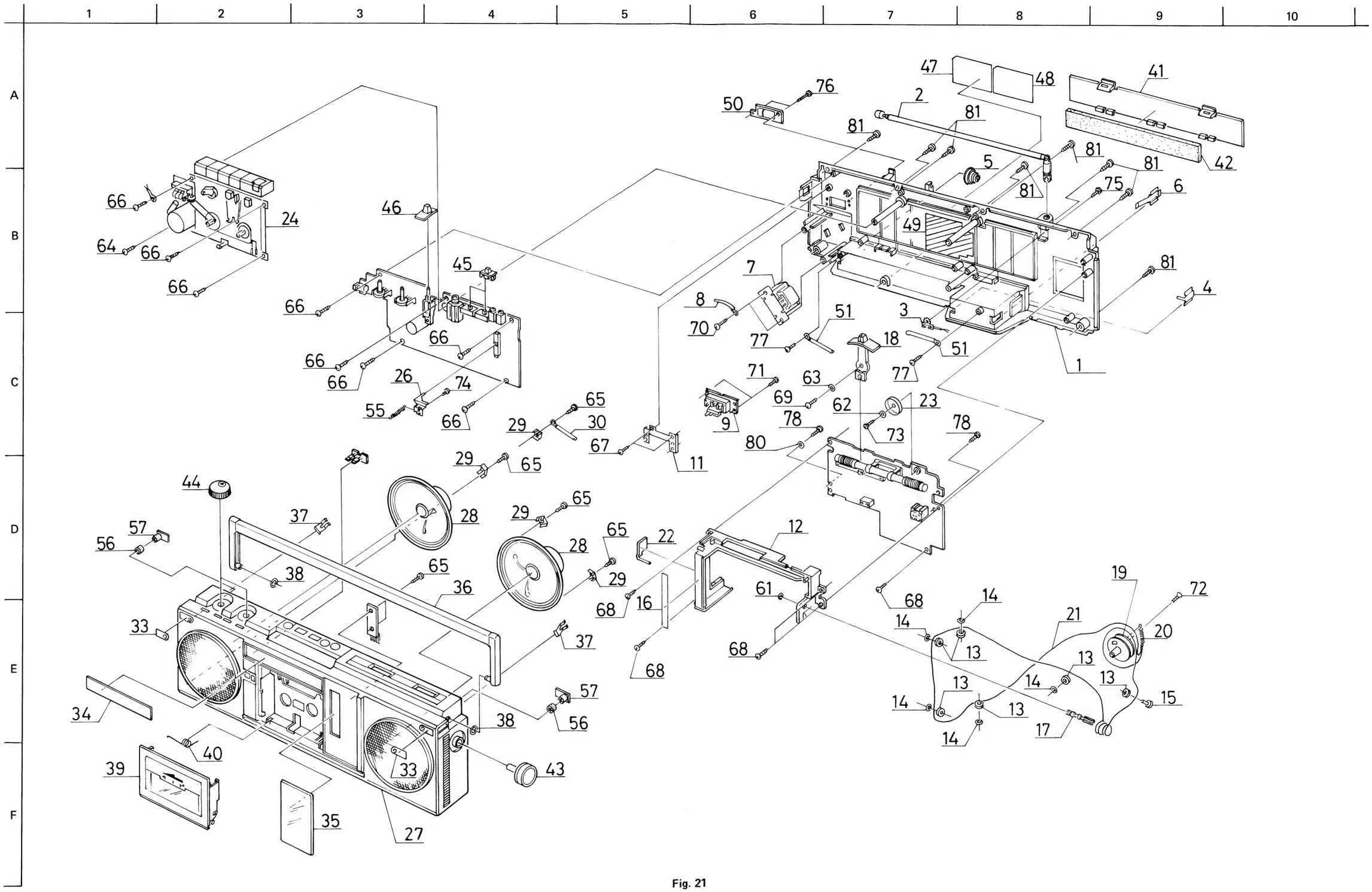
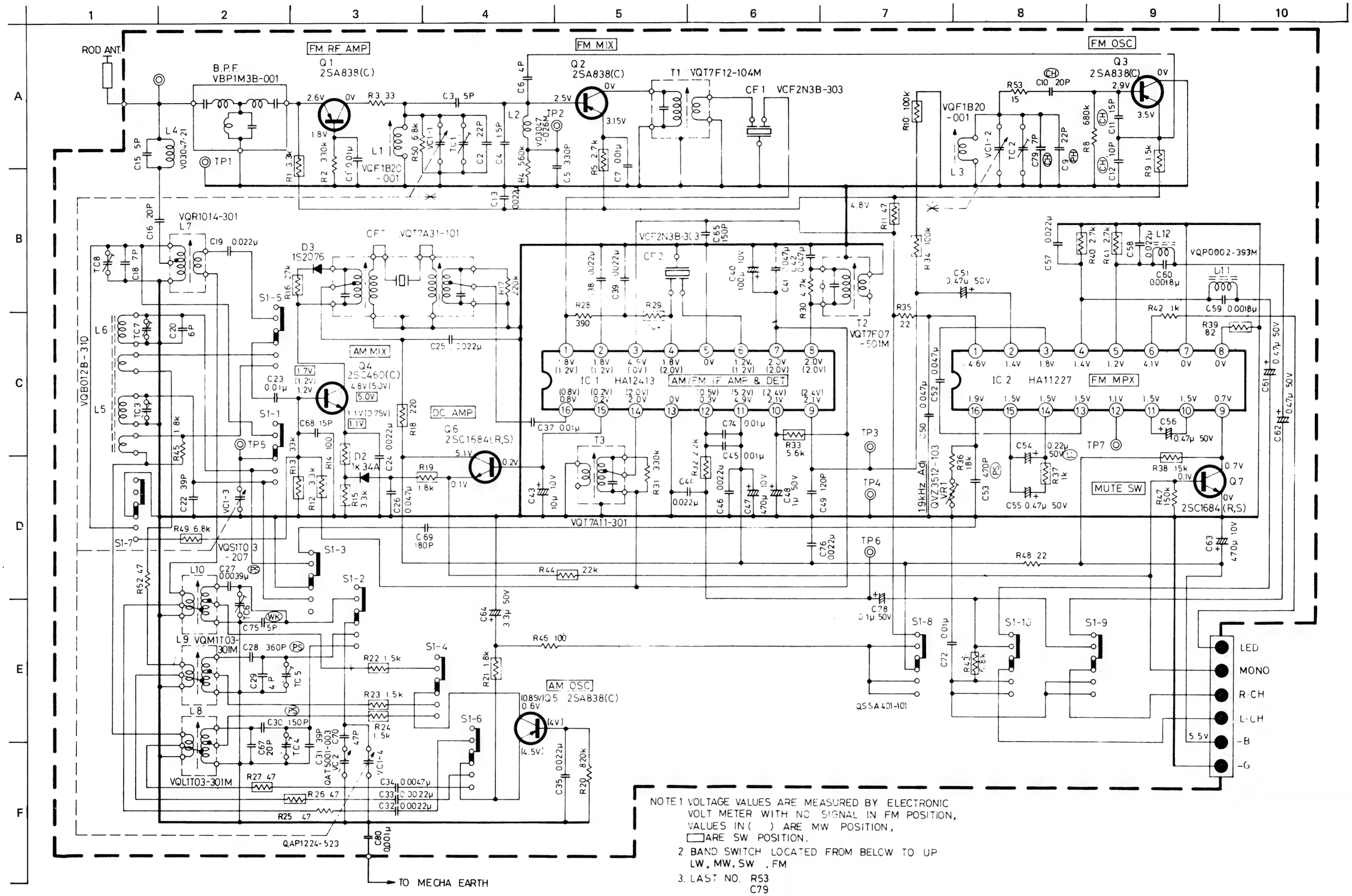


Fig. 21

Standard Schematic Diagram of RC-S40LD (Tuner Circuit)



NOTE 1 VOLTAGE VALUES ARE MEASURED BY ELECTRONIC VOLT METER WITH NO SIGNAL IN FM POSITION, VALUES IN ( ) ARE MW POSITION, □ ARE SW POSITION.

2. BAND SWITCH LOCATED FROM BELOW TO UP LW, MW, SW, FM

3. LAST NO. R53
C79

RC-S40LD

JVC

SERVICE MANUAL

MODEL RC-S40LD

FM-AM-SW1-SW2 4 BAND
RADIO CASSETTE RECORDER

Please note that model RC-S40LD is the same as RC-S40L except FM circuit and its relation parts. As the other parts not noted here are the same as those of RC-S40L, refer to the service manual (No. 1476) of the model RC-S40L/LB.

Enclosure Assembly

Ref. No.	Parts Name	RC-S40LD	RC-S40L
35	Dial Lens	VJK4171-006	VJK4171-005
47	Name Plate	VYN5081-006C	VYN5081-003C

Tuner P.W. Board Parts List

Ref. No.		Parts No.	Parts Name	Remarks	Q'ty
		VMW2180-101	P.W. Board		1
VC2		QAT5001-003	M.V. Capacitor		1
TC5—8		QAT2002-001M	T. Capacitor		2
S1-1—1-10		QSSA401-101	S. Switch		1
VR1		QVZ3512-103	V. Resistor		1
IC1		HA12413	I.C.		1
IC2		HA11227	"		1
Q4		2SC460(C)	Transistor		1
Q5		2SA838(C)	"		1
Q6		2SC1684(R,S)	"		1
Q7		2SC1684(R,S)	"		1
D2		1K34ALF	Ge. Diode		1
D3		1S2076	Si. Diode		1
L8		VQL1T03-301M	Osc. Coil	LW	1
L9		VQM1T03-301M	"	MW	1
L10		VQS1T03-207	"	SW	1
L7		VQR1014-301	Ant. Coil	SW	1
L5, 6		VQB012B-310	Bar Ant. Ass'y	MW, LW	1
L2		V03047-026M	Coil		1
L4		V03047-21	"		1
T1		VQT7F12-104M	I.F.T.		1
T2		VQT7F07-501M	"		1
CFT		VQT7A31-101	"		1
T3		VQT7A11-301	"		1
L11, 12		VQP0002-393M	Inductor		2
CF1, 2		VCF2N3B-303	C. Filter		2
C13		QCF21HP-223	C. Capacitor	0.022 μF 50 V	1
C15		QCS21HJ-5R0	"	5 pF "	1
C16		" -200	"	20 pF "	1
C18		" -7R0	"	7 pF "	1
TC1—4, VC1-1—1-4		QAP1224-523	V. Capacitor		1
Q1, 2, 3		2SA838(C)	Transistor		3
L1, 3		VQF1B20-001	RF Coil		2
BPF		VBP1M3B-001	C. Filter		1
C1, 7		QCF21HP-103	C. Capacitor	0.01 μF 50 V	2
C2		QCS21HJ-220	"	22 pF "	1
C3		" -5R0	"	5 pF "	1
C4		" -150	"	15 pF "	1
C5		" -331	"	330 pF "	1
C6		" -4R0	"	4 pF "	1
C9		QCT05PH-220	"	22 pF	1
C10		QCT26CH-200	"	20 pF	1
C11		" -150	"	15 pF	1
C12		QCS21HJ-100	"	10 pF 50 V	1
C79		QCT05CH-7R0	"	7 pF	1
R2		QRD143J-334S	C. Resistor	330 kΩ 1/4 W	1
R3		" -330S	"	33 Ω "	1
R4		" -564S	"	560 kΩ "	1
R8		" -684S	"	680 kΩ "	1
R53		" -150	"	15 Ω "	1
C80		QCY41HK-102	C. Capacitor	0.001 μF 50 V	1
C19		QCC21EM-223	"	0.022 μF 25 V	1
C20		QCS21HJ-4R0	"	4 μF 50 V	1
C22		" -330	"	33 μF "	1
C23		QCY21HK-103	"	10 μF "	1
C24		QFN81HJ-223	M. Capacitor	0.022 μF "	1
C25, 35, 38, 39		QCF21HP-223	C. Capacitor	0.022 μF "	4
C26, 41, 42, 50		" -473	"	0.047 μF "	4
C27		QFS41HJ-392	P. Capacitor	0.0039 μF "	1
C28		" -361	"	360 pF "	1
C29		QCS21HJ-100	C. Capacitor	10 pF "	1
C30		QFS41HJ-151	P. Capacitor	150 pF "	1
C31		QCS21HJ-390	C. Capacitor	39 pF "	1
C32, 33		QCS21HK-222	"	0.0022 μF "	2
C34		QCY21HK-472	"	0.0047 μF "	1
C37		QCF21HP-103	"	0.01 μF "	1
C40		QET51AR-107	E. Capacitor	100 μF 10 V	1
C43		" -106	"	10 μF "	1
C44, 57, 58		QFN81HJ-223	M. Capacitor	0.022 μF 50 V	3
C45		QCC21EM-103	"	0.01 μF 25 V	1
C46		QCF21HP-223	C. Capacitor	0.022 μF 50 V	1
C47		QET51AR-477	E. Capacitor	470 μF 10 V	1
C48		QET51HR-105	"	1 μF 50 V	1
C49		QCS21HJ-121	C. Capacitor	120 pF "	1
C51, 55, 56		QET51HR-474	E. Capacitor	0.47 μF "	3
C52		QFN81HJ-473	M. Capacitor	0.047 μF "	1
C53		QFS41HJ-471	P. Capacitor	470 pF "	1
C54		QEB51HM-224	E. Capacitor	0.22 μF "	1
C75		QCT26WK-5R0	C. Capacitor	5 pF	1
C59, 60		QCY21HK-182	"	0.0018 μF 50 V	2
C74		QCC11EM-103	"	0.01 μF 25 V	1
C61, 62		QET51HR-474	E. Capacitor	0.47 μF 50 V	2
C72		QFN81HJ-103	M. Capacitor	0.01 μF "	1
C67, 68		QCS21HJ-150	C. Capacitor	15 pF "	1
C63		QET51AR-477	E. Capacitor	470 μF 10 V	1
C64		QET51HR-335	"	3.3 μF 50 V	1
C69		QCS21HJ-181	C. Capacitor	180 pF "	1
C65		" -151	"	150 pF "	1
C70		" -470	"	47 pF "	1
C78		QET51HR-104N	E. Capacitor	0.1 μF "	1
R28		QRD143J-391S	C. Resistor	390 Ω 1/4 W	1
R17		" -224S	"	220 kΩ "	1
R20		" -824S	"	820 kΩ "	1
R25		" -470S	"	47 Ω "	1
R30		" -472S	"	4.7 kΩ "	1
R31		" -334S	"	330 kΩ "	1
R32, 48		" -220S	"	22 Ω "	2
R36		" -183S	"	18 kΩ "	1
R42		" -102S	"	1 kΩ "	1
R45		" -182S	"	1.8 kΩ "	1
R46		" -101S	"	100 Ω "	1
R47		" -154S	"	150 kΩ "	1
R50		" -682S	"	6.8 kΩ "	1
CN1P		QMV5005-006	Connector		1

No. 1487
April 1982

JVC
VICTOR COMPANY OF JAPAN, LIMITED.
RADIO & RECORDING MACHINE DIVISION 10-1, 1-chome, Ohwatari-cho, Maebashi-city 371, Japan

Printed in Japan
—5704—S—

Enclosure Assembly and Electrical Parts List (Except P.W. Board Parts)

⚠ parts are safety assurance parts.
When replacing those parts, make sure to use the specified one.

Ref. No.	⚠	Parts No.	Parts Name	Remarks	Q'ty
(1,47~49)		ZCRCS40Y-CBR	Rear Cabinet Ass'y		1
1		VJC1227-003	Rear Cabinet		1
2		VJA3005-001	Rod Antenna		1
3		VYH4954-002	Rod Ant. Holder		1
4		VYH4971-001	Battery Contact		1
5		VYH4972-001	Battery Spring		1
6		VYH4969-001	Battery Contact		1
7	⚠	VTP41P2-90A	Power Transformer	RC-S40L	1
	⚠	VTR41A2-90ABS	Power Transformer	RC-S40LB	1
8		VKZ4001-010	Wire Holder		2
9	⚠	QMC9020-001	AC Socket		1
11		VYH5057-001	Bracket		1
12		VYH2135-001	Chassis		1
13		VYH4002-001	Roller		6
14		V42562-1	Special Washer		5
15		RTA4008	Rivet		1
16		VJK4172-001	Dial Back		1
17		VYH4009-009	Tuning Shaft		1
18		VXQ3035-001	Toggle Lever		1
19		VYH4955-002	Drum		1
20		VKW3002-098	Spring		1
21		VHR2TK9-05AT	Dial Rope	ϕ 0.5 x 660	1
22		VJN4070-001	Needle		1
23		VXL4182-001	Fine Tuning Knob		1
24		—	Cassette Mecha Ass'y		1
25		VKZ4001-007	Wire Holder		1
26		VKY4272-002	Record Spring		1
(27,33~35)		ZCRCS40L-CBF	Front Cabinet		1
27		VJC1219-008	Front Cabinet		1
28		EAS9P94SB	Speaker		2
29		VTH4352-002	SP Clamp		4
30		VKZ4001-010	Wire Holder		1
33		VJD4582-001	Mic Plate		2
34		VJD4583-001	Plate		1
35		VJK4171-005	Dial Lens		1
36		VJH-4041-00D	Handle Ass'y		1
37		VYH4959-003	Handle Spring		2
38		VYSS2R5-012	Spacer		2
39		VJT4062-00B	Cassette Door Ass'y		1
40		VYH4941-003	Door Spring		1
41		ZCRCS40Y-BCA	Batt. Cover Ass'y		1
43		VXL4180-001	Tuning Knob		1
44		VXL4179-001	Knob	Tone Volume	2
45		VXS4073-001	Slide Knob		2
46		VXQ4052-001	Lever Knob		1
47		VYN5081-003C	Name Plate	RC-S40LB	1
		VYN5081-004C	"	RC-S40L	1
48		V44582-006	Plate	(for caution)	1
49		VYH5072-00A	Shield Ass'y		1
50		VYH5082-001	Plate		1
51		VKZ4001-007	Wire Holder		1
52		50242-2	Lug		1
53		V44619-001	Wire Holder		2
54		QHX2075-001	Wire Clamp		6
55		VKW3002-097	Spring		1
56		VYH4049-001	Mic Bushing		2
57		VMME62N-031	E. C Mic		2

Ref. No.	⚠	Parts No.	Parts Name	Remarks	Q'ty
61		REE3000	E ring	Tuning Shaft	1
62		WNB2000N	Washer	Fine Tuning Knob	1
63		Q03091-138	"	Toggle Lever	1
64		SBSF3008C	Tapping Screw	Rear Cabinet — Mecha. Ass'y	1
65		SBSF3008Z	"	Speaker x 4, Mic. Spring x 2	6
66		SBSF3010C	"	Rear Cabinet — Amp. Ass'y x 5 Rear Cabinet — Mecha. Ass'y x 3	8
67		SBSF3008Z	"	Bracket	2
68		SBSF3012C	"	Chassis — Rear Cabinet, x 4 Rear Cabinet — P.W.B x 1	5
69		SBSF3012Z	"	Toggle Lever	1
70		SBSF3020Z	"	Trans — Rear Cover	2
71		SDSP3006Z	"	Bracket	2
72		SSSP2606Z	Screw	Drum	1
73		SPSP2004Z	"	Fine Tuning Knob	1
74		SPSP2604Z	"	Wire Holder	1
75		SPSP3010R	"	Rod Ant. Holder	1
76		SDSP2012R	"		2
77		SBSF3006Z	"		2
78		SBSF3010Z	Tapping Screw	Chassis — P.W.B	2
80		Q03091-026	Washer		1
81		SDSF3016R	Tapping Screw	F. Cabinet — R. Cabinet	8

Mechanical Component Parts

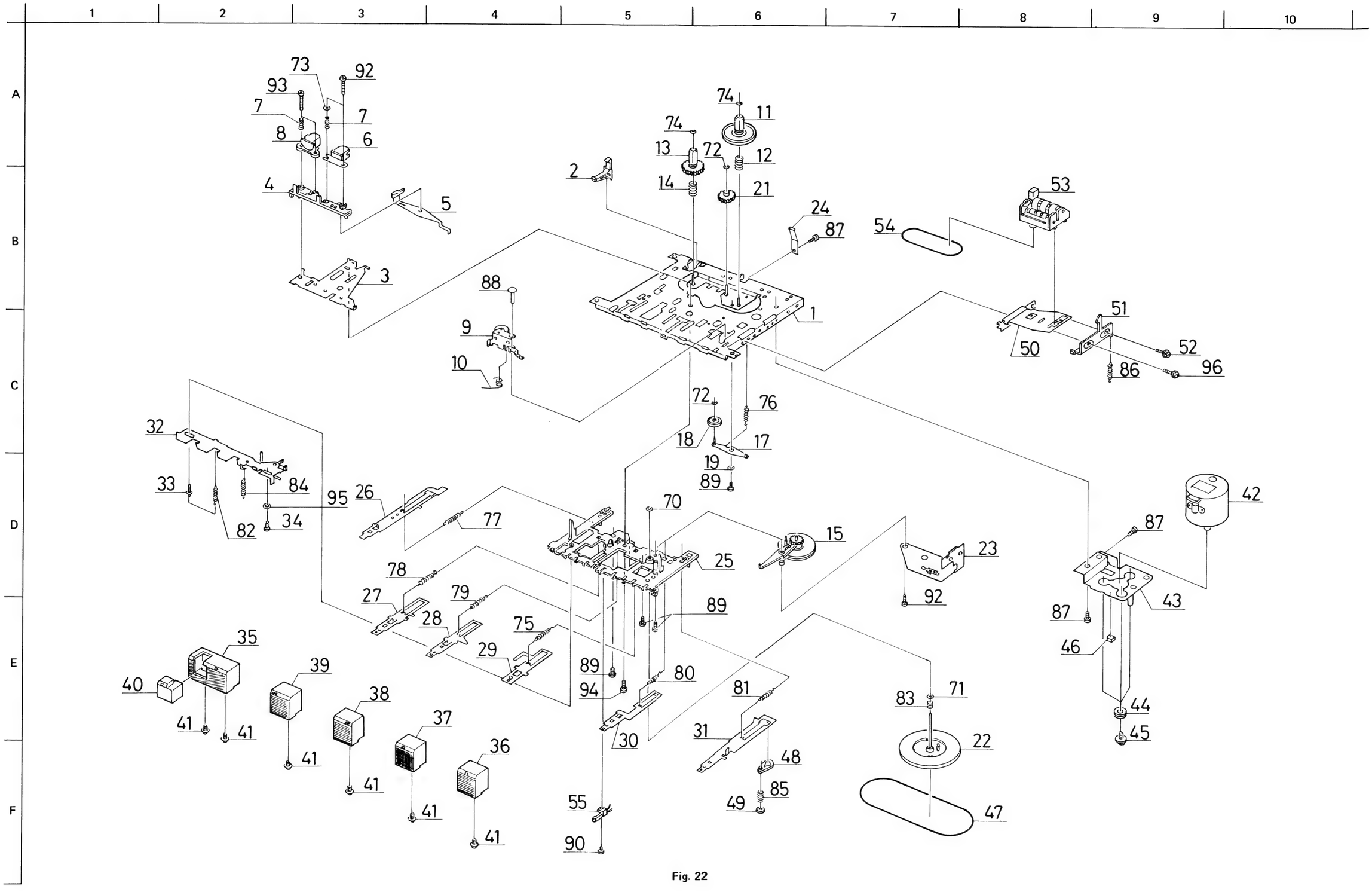


Fig. 22

Mechanical Component Parts List

Ref. No.	Parts No.	Parts Name	Remarks	Q'ty
1	180001501ZT	Mecha. Chassis Ass'y		
2	18000201T	Rec. Safety Lever		1
3	18000301T	Head Panel		1
4	18000302T	Head Base		1
5	170003207ET	Detector Plate Ass'y		1
6	VGH0421-010	R/P Head		1
7	14400315T	Head Spring		1
8	V03078-041	E. Head		1
9	180004301ZT	Pinch Roller Arm Ass'y		1
10	18000403T	Pinch Roller Spring		1
11	180005301ZT	Take-up Reel Ass'y		1
12	18000508T	Back Tension Spring		1
13	180005302ZT	Supply Reel Ass'y		1
14	18000509T	Back Tension Spring		1
15	180006303ZT	RF. Clutch Ass'y		1
17	180006501ZT	Take-up Roller Arm Ass'y		1
18	18000605T	Take-up Roller		1
19	18000609T	Collar		1
21	18000610T	F.F. Gear		1
22	180007301ZT	Flywheel Ass'y		1
23	180007302ZT	Flywheel Bracket Ass'y		1
24	15100134T	Pack Spring		1
25	18000901T	Button Base		1
26	18000902T	Rec. Button Lever		1
27	18000904T	Play Button Lever		1
28	18000906T	Rew. Button Lever		1
29	18000908T	F.F. Button Lever		1
30	18000909T	Stop Button Lever		1
31	180009501ZT	Pause Button Lever Ass'y		1
32	180009502ZT	Lock Plate Ass'y		1
33	17000921T	Lock Plate Boss		1
34	18000917T	"		1
35	VXP3081-001	Push Button	for Play	1
36	VXP3082-001	"	for Pause	1
37	" -002	"	for Stop/Eject	1
38	" -003	"	for F.F.	1
39	" -004	"	for Rew.	1
40	VXP3083-001	"	for Rec.	1
41	18000918T	Flange Cup Screw		6
42	180010311ET	Motor Ass'y		1
43	180010501ZT	Motor Bracket Ass'y		1
44	5880910T	Rubber Cushion		3
45	12001201T	Collar Screw (S)		3
46	3130702T	Mat		1
47	18001016T	Main Belt		1
48	12221702T	Pause Lever		1
49	17000935T	Pause Lever Stopper		1
50	18001301T	Counter Bracket		1
51	18001102T	Eject Slide Lever		1
52	17000310T	Collar Screw		2
53	VKC5158-002S	Tape Counter		1
54	15241801T	Counter Belt		1
55	MSW-1275T	Leaf Switch		1

Ref. No.	Parts No.	Parts Name	Remarks	Q'ty
70	031503T	Nylon Washer	for Capstan (ø1.8 x ø5 x t 0.5)	1
71	93730000T	"	for " (ø2.2 x ø7 x t 0.5)	1
72	94210000T	Polyslider Washer	for Take-up Roller x 1 for F.F. Gear x 1 (ø1.2 x ø3 x t 0.25)	2
73	15601501T	Washer	R/P Head	1
74	97430000T	Polyslider Washer	for Supply Reel Ass'y x 1 for Take-up Reel Ass'y x 1 (ø1.6 x ø3.8 x t 0.3)	2
75	18000907T	Spring	for FF Button	1
76	18000608T	Spring	for Take-up Roller Arm	1
77	18000903T	"	for Rec. Button	1
78	18000933T	"	for Play Button	1
79	18000905T	"	for Rew. Button	1
80	18000903T	"	for Stop Button	1
81	18000903T	"	for Pause Button	1
82	170009348T	"	for Lock Plate	1
83	18000707T	"	for Thrust spring	1
84	18000916T	"	for Auto Lever	1
85	12221703T	"	for Pause Lever	1
86	12471202T	"	for Eject Slide Lever	1
87	20PZ26040T	Tap. Screw	for Peak Spring x 1, Mat x 2	3
88	17152015T	Stopper	for Pinch Roller Arm Ass'y	1
89	SPSD2004Z	TH. Tap. Screw	for Take-up Roller x 1, Button Base x 3	4
90	SPSF2006Z	Tap. Screw	for Leaf Switch	1
91	SPSF2008Z	"	for Flywheel Bracket Ass'y	1
92	SPSX2007Z	PM. Screw	for R/P Head	2
93	98210000T	PM. Cap Screw	for E. Head	2
94	SPSP2005Z	TH. Tap. Screw	for Button Base	1
95	15601501T	Washer	for Lock Plate (ϕ 2.1 x ϕ 5 x t 0.4)	1
96	17001111T	Collar Screw		1

Tuner P.W. Board Parts List

⚠ parts are safety assurance parts.
When replacing those parts, make sure to use the specified one.

Ref. No.	⚠	Parts No.	Parts Name	Remarks	Q'ty
		VMW2180-101	P.W. Board		1
TC1–4, VC1-1...4		QAP1224-523	V. Capacitor		1
VC2		QAT5001-003	M.V. Capacitor		1
TC5, 6, 7, 8		QAT2002-001M	T. Capacitor		2
S1-1...10		QSSA401-101	S. Switch		1
VR1		QVZ3512-103	V. Resistor	10 kΩ	1
IC1		HA12413	IC		1
IC2		HA11227	"		1
Q1, 2, 3, 5		2SA838(C)	Transistor		4
Q4		2SC460(C)	"		1
Q6, 7		2SC1684(R,S)	"		2
D1		MA345	Vari. Cap.		1
D2		1K34ALF	Ge. Diode		1
D3		1S2076	Si. Diode		1
L1		VQF1B20-001	RF Coil	FM	1
L2		V03047-026M	Coil		1
L3		VQF1B20-001	OSC. Coil	FM	1
L4		V03047-21	Coil		1
L5, 6		VQB012B-310	Bar Antenna Ass'y	MW, LW	1
L7		VQR1014-301	Antenna Coil	SW	1
L8		VQL1T03-301M	OSC. Coil	LW	1
L9		VQM1T03-301M	"	MW	1
L10		VQS1T03-207	"	SW	1
L11, 12		VQP0002-393M	Inductor		2
T1		VQT7F12-104M	IFT		1
T2		VQT7F07-501M	"		1
CFT		VQT7A31-101	"		1
T3		VQT7A11-301	"		1
C1, 7, 37		QCF11HP-103	C. Capacitor	0.01 μF 50 V	3
C2		QCS11HJ-220	"	22 pF "	1
C4		" -150	"	15 pF "	1
C5		" -331	"	330 pF "	1
C6, 29		" -4R0	"	4 pF "	2
C8		QCS12HJ-6R0	"	6 pF "	1
C9		QCT26RH-220	"	22 pF "	1
C10, 11		QCT26CH-150	"	15 pF "	2
C12		QCS11HJ-100	"	10 pF "	1
C13		QCF11HP-223	"	0.022 μF "	1
C14		QEB41HM-104	E. Capacitor	0.1 μF "	1
C15, 3		QCS11HJ-5R0	C. Capacitor	5 pF "	2
C16		QCS12HJ-200	"	20 pF "	1
C18		" -7R0	"	7 pF "	1
C19, 46		QCC11EM-223	"	0.022 μF 25 V	2
C20		QCS11HJ-6R0	"	6 pF 50 V	1
C22		" -390	"	39 pF "	1
C23		QCY41HK-103	"	0.01 μF "	1
C24		QFM41HJ-223	M. Capacitor	0.022 μF "	1
C25, 35, 38, 39		QCF11HP-223	C. Capacitor	0.022 μF "	4
C26, 41, 42, 50		" -473	"	0.047 μF "	4
C27		QFS41HJ-392	P. Capacitor	0.0039 pF "	1
C28		" -361	C. Capacitor	360 pF "	1
C30, 65		QCS11HJ-151	"	150 pF "	2
C31		" -390	"	39 pF "	1
C33, 32		QCY41HK-222	"	0.0022 μF "	2
C34		" -472	"	0.0047 μF "	1
C40		QET41AR-107	E. Capacitor	100 μF 10 V	1
C43		" -106	"	10 μF "	1
C44, 57, 58		QFM41HJ-223	M. Capacitor	0.022 μF 50 V	3
C45		QCC22EM-103	"	0.01 μF "	1
C75		QCT05WK-5R0	C. Capacitor	5 pF	1

Ref. No.	⚠	Parts No.	Parts Name	Remarks	Q'ty
C47		QET41AR-477	E. Capacitor	470 μF 10 V	1
C48		QET41HR-105	"	1 μF 50 V	1
C49		QCS11HJ-121	C. Capacitor	120 pF "	1
C51, 55, 56, 61, 62		QET41HR-474	E. Capacitor	0.47 μF "	5
C52		QFM41HJ-473	M. Capacitor	0.047 μF "	1
C53		QCS11HJ-471	C. Capacitor	470 pF "	1
C54		QEB41HM-224	E. Capacitor	0.22 μF "	1
C59, 60		QCY41HK-182	C. Capacitor	0.0018 μF "	2
C63		QET41AR-477	E. Capacitor	470 μF 10 V	1
C64		QET51HR-335	"	3.3 μF 50 V	1
C67		QCS11HJ-200	C. Capacitor	20 pF 50 V	1
C68		QCS21HJ-150	"	15 pF "	1
C69		QCS11HJ-181	"	180 pF "	1
C71		" -470	"	47 pF "	1
C72		QFM41HJ-103	M. Capacitor	0.01 μF "	1
C74		QCC11EM-103	C. Capacitor	0.01 μF 25 V	1
C76		QCC21EM-223	"	0.022 μF "	1
C78		QET51HR-104	E. Capacitor	0.1 μF 50 V	1
R2		QRD161J-334	C. Resistor	330 kΩ 1/6 W	1
R3		" -330	"	33 Ω "	1
R4		" -564	"	560 kΩ "	1
R8		" -394	"	390 kΩ "	1
R17		QRD143J-224S	"	220 kΩ 1/4 W	1
R20		QRD161J-824	"	820 kΩ 1/6 W	1
R25		QRD143J-470S	"	47 Ω 1/4 W	1
R30		" -472S	"	4.7 kΩ "	1
R31		" -334S	"	330 kΩ "	1
R35		" -220S	"	220 kΩ "	1
R36		QRD161J-183	"	18 kΩ 1/6 W	1
R42		" -102	"	1 kΩ "	1
R46		QRD143J-101S	"	100 Ω 1/4 W	1
R47		" -154S	"	150 kΩ "	1
R48		QRD141J-220S	"	22 Ω "	1
R50		" -682S	"	6.8 kΩ "	1
R51		QRD143J-182S	"	18 kΩ "	1
CN1P		QMV5005-006	Connector		1

Note: The other resistors not listed are the printed resistors on P.W. Board.
When these resistors break, repair to use composition resistors.

Amplifier P.W. Board Parts List

⚠ parts are safety assurance parts.
When replacing those parts, make sure to use the specified one.

Ref. No.	⚠	Parts No.	Parts Name	Remarks	Q'ty
		VMW2181-xxxA	P.W. Board	No supply as parts ass'y	1
VR101		QVZ1223-001	V. Resistor	TONE	1
VR102		" -002	"	VOLUME	1
VR103, 203		QVP8A0B-054	"	BIAS ADJ.	2
S301-1...4		QSL4210-301	Lever Switch	Tape-Radio	1
S302-1...12		QSSC201-201R	Slide Switch	PLAY/REC	1
S303-1...2		QSS2201-203	"	MONITOR	1
S304-1...4		QSS4301-034	"	MODE	1
J101, 201		QMS3501-016	Jack Ass'y	EXT. MIC IN	2
J301		QMS6312-012	Headphone Jack	H. PHONES	1
J302		QMA9003-001	DC Jack	EXT. DC IN	1
IC101, 201		UPC1158H2	IC		2
IC102, 202		UPC1213C(L,K)	"		2
Q101, 201, 301, 302		2SC1684(R,S)	Transistor		4
D101, 201		1S2076	Si. Diode		2
D301		HZ6C2	Ze. Diode		1
D302–306		10E1	Si. Diode		5
L101, 201		VQP0002-103M	Inductor		2
L301		V03083-020M	OSC. Coil		1
C101, 201		QET41HR-474	E. Capacitor	0.47 μF 50 V	2
C102, 202, 107, 207, 110, 210, 128, 228		" -105	"	1 μF "	8
C104, 204		QCY41HK-122	C. Capacitor	0.0012 μF "	2
C105, 205, 114, 214, 310		QET41AR-107	E. Capacitor	100 μF 10 V	5
C106, 206, 122, 222		QFM41HK-103	M. Capacitor	0.01 μF 50 V	4
C108, 208		QCY41HK-682	C. Capacitor	0.0068 μF "	2
C109, 209		" -471	"	470 pF "	2
C111, 211		QFT41CR-226	E. Capacitor	22 μF 16 V	2
C112, 212, 306		QET41AR-227	"	220 μF "	3
C113, 213, 118, 218, 301		" -476	"	47 μF 10 V	5
C115, 215, 304		" -477	"	470 μF "	3
C116, 216		QFM41HJ-104	M. Capacitor	0.1 μF 50 V	2
C117, 217		QFM41HK-273	"	0.027 μF "	2
C120, 220, 308		" -223	"	0.022 μF "	3
C121, 221		QET41HR-104N	E. Capacitor	0.1 μF "	2
C123, 223, 319		QET41ER-475	"	4.7 μF 25 V	3
C124, 224		QCS11HK-501	C. Capacitor	500 pF 50 V	2
C125, 225		QCY41HK-182	"	0.0018 μF "	2
C126, 226		QET41HR-335	E. Capacitor	3.3 μF "	2
C127, 227		QCS11HK-331	C. Capacitor	330 pF "	2
C129, 229		QCS11HJ-101	"	100pF "	1
C302		QET41AR-337	E. Capacitor	330 μF 10 V	1
C305, 313–316, 318, 320		QCF11HP-223	C. Capacitor	0.022 μF 50 V	7
C307		QET41CR-228	E. Capacitor	2200 μF 16 V	1
C309		QCY41HK-392	C. Capacitor	0.0039 μF 50 V	1
C311		" -681	"	680 pF "	1
C312		QCS11HK-121	"	120 pF "	1
C317		QET41CR-477	E. Capacitor	470 μF 16 V	1
C320		QCF11HP-223	C. Capacitor	0.022 μF 50 V	1
C321		" -103	"	0.01 μF "	1
C322		" -241	"	240pF "	1
R101, 201		QRD161J-100	C. Resistor	10 Ω 1/6 W	2
R114, 214		QRD143J-225	"	2.2 MΩ 1/4 W	2
R116, 216		QRD141J-820S	"	82 Ω "	2
R118, 218		QRD143J-1R0S	"	1 Ω "	1
R120, 220		QRD161J-180	"	18 Ω 1/6 W	2
R126		" -562	"	5.6 kΩ "	1
R303, 304		QRD161J-331	"	330 Ω 1/6 W	2
R306		" -150	"	15 Ω "	1
R309		QRD123J-1R0	"	1 Ω 1/2 W	1
R310		QRD141J-564S	"	560 kΩ 1/4 W	1
FR301, 302	⚠	QRH141J-100	Fusible Resistor	10 Ω 1/4 W	1

Ref. No.	⚠	Parts No.	Parts Name	Remarks	Q'ty
CN301P		QMV5005-004	Connector		1
	⚠	QMF51A2-R80	Fuse	RC-S40L	1
	⚠	A44594-001	Fuse Clip		2
	⚠	VND4003-029	Fuse Label		1
	⚠	QMF51A2-R80BS	Fuse	RC-S40LB	1

Note: The other resistors not listed are the printed resistors on P.W. Board.
When these resistors break, repair to use composition resistors.

Other P.W. Board Parts List

Ref. No.	⚠	Parts No.	Parts Name	Remarks	Q'ty
(LED)		VMW2181-xxxB	P.W. Board		1
		LN224RP	LED		2
R401		QRD161J-102	C. Resistor	1 kΩ 1/6 W	1
(E.C. Mic)		VMW3174-xxB	P.W. Board		1
		VMME62N-031	E.C. Mic		1
		VYH4049-001	Mic. Bushing		1
(E.C. Mic)		VMW3174-xxC	P.W. Board		1
		VMME62N-031	E.C. Mic		1
		VYH4049-001	Mic. Bushing		1
(Connector)		VMW3174-xxA	P.W. Board		1
		QMV5004-004	Connector		1

Packing

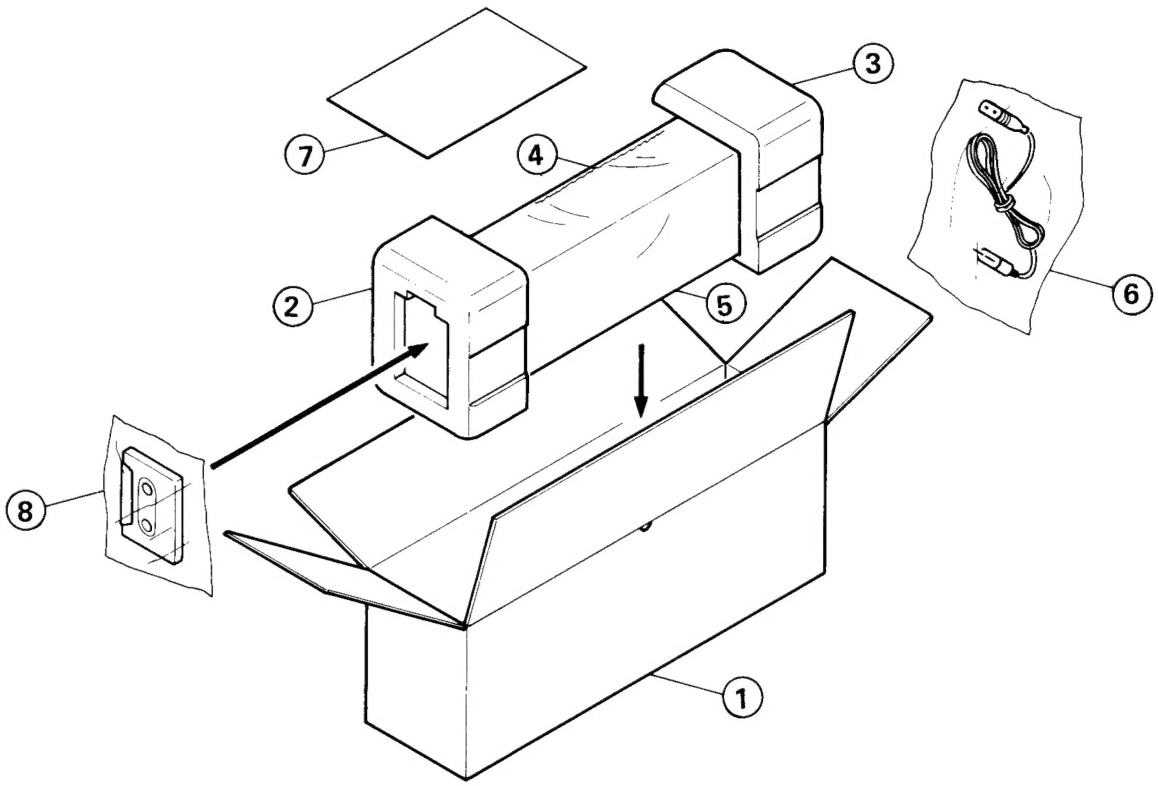


Fig. 23

Packing Material Parts List

Ref. No.	Parts No.	Parts Name	Remarks	Q'ty
1	VPD5081-J07	Carton	RC-S40L	1
	" -J05	"	RC-S40LB	1
2	VPH1243-001	Side Cushion	Left	1
3	VPH1244-001	"	Right	1
4	VHPJ079-036	White Paper		1
5	QPGA060-05005	Poly Bag	for Unit	1
6	QPGA012-01505	"	for Power Cord	1
7	QPGB017-02404	"	for Accessories	1
8	VGT12S3-J04	Cassette Tape		1

Accessories

⚠ parts are safety assurance parts.
When replacing those parts, make sure to use the specified one.

Parts No.	⚠	Parts Name	Remarks	Q'ty
VGT12S3-J04		Cassette Tape		1
QMP9017-009BS	⚠	Power Cord	RC-S40LB	1
QMP3950-183	⚠	"	RC-S40L	1
QPGA012-01505		Poly Bag	for Power Cord	1
VYA4001-00A		Head Cleaning Stick		1
VYA4002-001		Short Plug		2
VNM0860-301		Instruction Book		1
OPGB024-03404		Poly Bag	for Instruction Book	1
BT20013C		Guarantee Certificate	RC-S40LB	1
VNF0860-001		Feature Tag	RC-S40LB	1
QZL1002-003		Warning Label	RC-S40LB	1

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